

Zeyu Li

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Education

University of California, Los Angeles (UCLA)

Los Angeles, CA, USA

PH.D. STUDENT IN COMPUTER SCIENCE, SUPERVISED BY PROF. WEI WANG, GPA: 3.8/4

Sept. 2016 - PRESENT

Research Interest: Network Embedding, Natural Language Processing, Data Mining, and Machine Learning

Harbin Institute of Technology (HIT)

Harbin, Heilongjiang, China

B.S. IN COMPUTER SCIENCE, GPA: 87.86/100

Aug. 2012 - Jun. 2016

Publication

Repairing Data through Regular Expressions

VLDB 2016

ZEYU LI, HONGZHI WANG, WEI SHAO, JIANZHONG LI, HONG GAO

Delhi, India

Selected Projects

Personalized Domain Expert Recommendation on QA Websites

UCLA

GRADUATE STUDENT RESEARCHER | *Numpy, PyTorch*

Aug. 2017 - Present

- Learnt the similarity between users from user network structure information and accepted-answer ranking information to provide personalized and best answering candidates for recommendation given the question proposed by a specific user.
- Jointly optimized network embedding similarity loss between users and ranking loss among answers. Used Bidirectional LSTM for learning the representations of question contents.

All Case Reports with Open Biomedical Annotation Terms (ACROBAT)

UCLA

GRADUATE STUDENT RESEARCHER | *Java*

Jul. 2017 - Present

- To implement a case report auto-annotation tool to identify the typed medical entities, relationships, and temporal information to construct graphical representation of treatment-disease development. Learn the representation of heterogeneous graphs for achieving high accuracy similarity search query and finding undocumented relationships between medical entities.
- Worked on Temporal Expression Extraction by introducing new hand-crafted rules to SUTime and collaborating with an Regex section.

Adversarial Gender-debiased Word Embedding

UCLA

COURSE PROJECT | *Python, PyTorch*

Oct. 2017 - Dec. 2017

- Built an adversarial model to learn gender-debiased word embedding and extracted the invariant information by jointly encoding the gender information and the invariant and feeding the encoded to *Discriminator*.
- Occupation project evaluation and word analogy test show that our model indeed removed the gender stereotype and achieved gender-debiased word embedding.

Forecasting the Best Answers in Community-based Question Answering Services

UCLA

COURSE PROJECT | *Numpy, Sci-kit Learn*

Apr. 2017 - Jun. 2017

- Automatically predicted best answers of questions in community-based QA forum (e.g. Stack Overflow). Four types of features are employed: statistical and meta features, social network, user expertise features, and natural language features.
- Used LambdaMART, one of the state of the art learning to rank models, to learn and select the highest answer as the prediction
- Empirical results show that proposed model outperforms all baselines and enhances the 7% of the average $P@1$.

Research of Basic Theory and Critical Technique on Big Data Usability

HIT

UNDERGRADUATE STUDENT RESEARCHER

Mar. 2015 - Jun. 2016

- Focused on developing data quality concepts and data cleaning algorithms, especially on regular-grammar-constrained data repairing techniques through pattern regular expressions.
- Proposed Regular-expression-based Structural Repair (RSR) algorithm which is a dynamic programming method with time complexity $O(nm^2)$ and space complexity $O(nm)$.
- Combined the RSR algorithm (for structural repair) with the value repair algorithm, a selection between association rule mining and edit distance. Constructed whole repairing methodology. Conducted excessive experiment to prove the effectiveness and efficiency.

Honors & Awards

2016	Graduate Dean's Scholar Award	Los Angeles, U.S.A
2016	VLDB Travel Grant VLDB 2016	Dehli, India
2016	Excellent Graduate Student of Harbin Institute of Technology (Top 10%)	Harbin, China
2016	Outstanding Undergraduate Graduation Thesis (Top 3%)	Harbin, China
2014	National Scholarship (Top 1%)	Harbin, China
2013	CASIC (China Aerospace Science & Industry Corp.) Scholarship (Top 3%)	Harbin, China